

COUNTRY	:	USSR STRATEGIC	MISSILE 1	BULLETIN	50X1-H	Dranerat
SODOBO I		For Comba with R-12	t Operation Missiles	ons of a	Regimer 50X1	at Armed -HUM

The Preparation for Combat Operations
of a
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Regiment Armed with R-12 Missiles
(Based on experience gained in exercises)
According to the concept of the higher command, a regiment equipped to launch R-12 missiles is used mainly for the performance of strategic tasks. These tasks are performed through the participation of the regiment in missile operations (in massed nuclear/missile strikes), carried out at the start of or during a war. The basic targets for destruction by the regiment may be:
-strategic missile launch sites;
-sites for the production, assembly and storage of nuclear weapons and of means for delivering them to the target;
-large airfields, air force and naval bases;
-centers of political administration and of military industry;
-large communications centers;
-large factories and power centers;
-arsenals and depote with strategic stocks of armaments, military equipment or strategic raw materials
-strategic reserves and other targets of strategic significance in the deep rear of the enemy.
In individual cases the missile regiment may be used to destroy the most important targets of operational significance.
-2-

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The preparation of a regiment for combat operations embraces a variety of measures which are carried out by commanders, staffs and services at all levels, and also by the subunits of the regiment. Basic among these measures are:

- -the determination and allocation of combat tasks;
- -the selection and preparation of siting areas and of the road network;
- the transport and stockpiling of missiles, nose comes and missile fuel components;
- -the movement of subunits into the siting area and their deployment in combat formation;
 - -the organization of communications and control;
- -combat, geodetic, meteorological, engineer and medical support;
- -the organization of coordination with the technical repair base (remontno-tekhnicheskaya baza RTB) supporting the combat operations of the regiment;
- -the advance planning of nuclear/missile strikes against enemy targets;
- -the systematic carrying out of exercises with the subunits, aimed at increasing the smooth functioning, clarity and speed of their operation in the fulfilment of fire missions;
- -organization of the carrying out of combat duty and advance preparation of the procedure and sequence for the receipt of signals (orders) on transition to the appropriate stage of readiness or on the preparation of missiles for launching, and also of the order for reporting on the fulfilment of the signals and commands to the commander of the large unit.

-3-	

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The sequence of accomplishment of the measures mentioned shore depends on the specific conditions of the military and profitical situation, on the establishment (ukomplekrovaniye) and level of training of the subunite, and also on the significance of the combat tasks entrusted to the regiment.

The preparation of the regiment for the performance of tasks in an operation during the initial period of a war must be corried out in advance, in accordance with the plan of the higher command. With the aim of delivering the first nuclear/missile strikes against the enemy immediately and of reducing to the minimum the time necessary to deploy the regiment in combat formation, the primary siting area is equipped in advance with launching mounts, with storage facilities for missiles, nose cones, and missile fuel, with shelters for personnel, for command posts and combat equipment, and with other stationary structures and hard surface roads. The command post of a regiment is prepared in the siting area of one of the battalions.

Besides the primary siting area, one or two alternate areas are prepared for the regiment, equipped with field-type engineer structures.

The high combat readiness of a missile regiment, and the availability of prepared siting areas, is best ensured by allocating combat tasks to it in advance and by precise performance of combat duty.

Subunits with a high level of special tactical training, with combat equipment in excellent condition, with appropriate materiel and technical support and with a prepared siting area will be allowed to go on combat duty. To perform combat duty is to carry out a combat task. Permission for subunits to go on combat duty is granted by a commission of the Commander-in-Chief of Missile Troops.

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In order to ensure firm and constant control of the regiment and RTB on combat duty, and for the operational control of the rousing (podyem) and assembly of subunits during a combat alert, round-the-clock duty is organized for specially detailed combat crews at the command posts of the regiment and of battalions. The duty shift of a combat crew at a regiment command post usually includes a regimental duty officer (otvetstvennyy dezhurnyy), an RTB duty officer, a communications duty officer, radiotelegraph operators, telegraph operators, communications center telephone operators and radiorelay technicians. A complete combat crew is assigned to the command post each day, when the regiment is announced as being at readiness Nos. 3, 2, or 1, or at the order of the higher command. The number of officers, NCO's and soldiers allotted to the combat crew of a command post is determined by an order to the regiment or by the Regulation on Combat Duty.

A regiment is put on combat duty on the basis of a combat order from the Main Staff of the Missile Troops (Glavnyy shtab raketnykh voysk). In allocating tasks for combat duty the following are indicated to the regiment:

- -the purpose of the duty and the degree of combat readiness;
- -the number and composition of the subunits put on combat duty;
- -the fire missions, the number and degree of readiness of missiles and nose cones intended for the first and for subsequent launchings (at readiness Mos. 2 or 1);
- -the sequence of organization and the operation of communications with the Main Staff of the Missile Troops, with the staff of the large unit (formation), with the district headquarters and with subordinate subunits;
- -the regimental stocks of missiles, nose cones, 50X1-HUM missile fuel, and other materiel supplies and the periods for their stockpiling;

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-signals and the procedure for reporting the ing out of signals (commands, orders);	e carry-
-readiness periods.	
Fire missions for the destruction of object the coordinates of aiming points, the expendite for each objective, the order or the sequence destruction of targets are determined by the Missile Troops.	of the ain Staff of
Depending on the situation, and on the nat importance of the tasks being performed, the p combat equipment of a regiment and of an RTB m in various degrees of combat readiness (Nos. 1) The following are related to the various degree readiness:	ay be found ., 2, 3 or 4). es of combat
-the specific technical condition of missil cones, and of ground and fueling equipment; the appointed for their disposition and storage.	ie arous
-the specific disposition of the personnel out combat duty;	
-a specific system of communications and or of regiments and RTB;	
-the accumulated stocks of missiles, nose fuel and of other supplies of material.	
On the basis of the particular situation decision of the higher command, the preparation regiment for launching missiles may be carried means of a successive transition from one degreadiness to another or all at once, regardle degree of readiness of the regiment subunits the alert was announced.	d out by cree of combat os of the at the time
Readiness Nos. 1, 2 and 3, as they have 1 for the regiment, ensure the launching of the in $\frac{1}{2}$ to $2\frac{1}{2}$ hours, and in 6 to 20 hours from 1	been established first missiles readiness No. 4.
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Preparation and execution of the first missile launchings in 1 to 21 hours are ensured by the timely performance of a number of measures in technical preparation for the launchings and also by having personnel on constant combat duty at the launch and technical sites. The number of personnel assigned to combat duty is determined by the total volume of high priority tasks involved in preparing the missiles for launching, in organizing their immediate storage and in the carrying-out of other measures to ensure attainment of the combat readiness specified for the regiment.

Thus, for example, to ensure combat readiness No. 4, the personnel of a regiment and RTB may be situated in the primary siting area (completely or partially) or in their permanent location. All regimental personnel are occupied in conformity with the plan for combat and political training. Subunits remaining at the disposition site are at constant readiness to move to the primary siting area. When readiness No. 3, 2 or 1 is announced the missile regiment and RTB are moved to the siting area at full strength.

In the regiment's primary siting area the requisite stocks of missiles, component parts, nose cones, ground equipment, missile fuel and of the other material supplies needed to ensure the specified degree of readiness and the successful conduct of combat operations are set up in good time. The size of the stocks established in the regiment is determined by a decision of the Commander-in-Chief of Missile Troops.

In the primary siting area the necessary astronomical and geodetic work and calculations are carried out in good time, a system of communications and control is organized, the combat training of personnel is carried out, and special tactical exercises for the subunits and the training of the regiment and RTB are carried out.

The operations of the regimental subunits on combat duty must be determined by instructions worked out for each subunit, taking into consideration the specific conditions of their disposition.

-7-

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The occupation by the regiment and RTB of the primary siting area, the transition from one degree of combat readiness to another, and combat operations, will start, as a rule, when a combat alert signal, prearranged by the Main Staff of the Missile Troops, is received from the central command post of the Commander-in-Chief of the Missile Troops.

For this purpose direct communications are organized between the Commander-in-Chief and each missile regiment. The existence of such communications should ensure the minimum expenditure of time in assigning combat missions and in calling for the first nuclear/missile strikes, because it is the regiment itself which is able to ensure the constant combat readiness of those who will directly carry out the fire missions - the launching subunits - and to accomplish independently the fire missions assigned to it. The allocation of tasks to the regiment's subunits must be carried out by short signals and by commands sent from the command post.

The actions of regiment and RTB subunits in an alert must therefore be planned carefully and in good time. The plan of action for a regimental subunit in an alert, with its deployment into combat formation, is evolved with this goal; in the plan are given the target, the combat alert signals, the order for the reception of signals and for their transmission to the subunits, the order for assembling and moving the subunits to the siting area, the movement routes, the attack positions, the control posts, the sequence for deploying the regiment in combat formation and for bringing it to the degree of combat readiness which has been determined, the order for the move of the RTB to the technical position, the questions of control and communications, the transport schedule for missiles and fuel components from the supply station, the schedule for issuing and receiving missiles, nose cones, missile fuel and other materiel and technical supplies, and also measures for support in combat. ing out the plan it is necessary to consider conditions for the disposition and security of the regiment, the probable nature of enemy actions, the time of year, the time of day

nature of enemy actions, the time and other conditions.

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Systematic training must be conducted with all personnel, with the goal of carefully working out the duties and the sequence of actions in an alert. An account of the personnel for action in an alert is made in each subunit daily, taking into consideration fatigue details, and administrative and other work. The actions of personnel, from the announcement of the alert and after assembly at their work positions, must be worked on to the stage at which they are automatic, and the expenditure of time in moving to and assuming work positions, in deploying ground equipment and in preparing it for operation, and in preparing and launching missiles, must be reduced to a minimum.

The Deployment of Regimental Subunits and of the Technical Repair Base in an Alert at Readiness No. 3

As has already been indicated, given the availabilities of siting areas prepared in good time, and the stockpiling in them of missile weapons, of nose cones and of means for ensuring their use, the combat actions of missile units (subunits) will begin with immediate deployment in combat formation at the alert, with transition to a greater degree of readiness or with the preparation of missiles for launching from any degree of readiness. Everything will depend on the particular situation, on the support, preparedness and degree of the regiment's combat readiness and on the decision of the higher command.

If the regiment's subunits are located in the primary siting area while at readiness No. 4 it is then necessary to do the following for transition to readiness No. 3:

-to transmit the alert signal to all personnel of the regiment and to assemble them at their work positions (notifying and assembling personnel in an alert should be done in 5 to 10 minutes);

-to deploy the ground equipment, in 1 to $1\frac{1}{2}$ hours;

-9-50X1-HUM

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	-to carry out the transition of the missiles from readiness No. 4 to readiness No. 3, the nose cones from SG-4 (condition of readiness - sostoyaniye gotovnosti) to SG-5, to transport the nose cones to the launching areas and to mate them with the missiles (not more than 9-10 hours should be used to fulfil these operations);	
	-to fill the fueling trucks and tank trucks with missile fuel components simultaneously with the prepar of the missiles and nose cones.	ation
	Thus, if the regimental subunits are located in the primary siting area, the regiment's transition from readiness No. 4 to readiness No. 3 can be carried out in $10\frac{1}{2}$ to 11 hours.	e
	However, various initial conditions may conform wi combat readiness No. 4, causing a different sequence a duration for the fulfilment by the regiment of the bas measures for transition to readiness No. 3.	ща
	The combat situation may make it necessary to bring missile regiment to readiness No. 3, when the construction storage facilities and structures in the primary siting area is not yet completed. In this case, the regiment subunits will, as a rule, be located in the permanent disposition area, and the regimental stocks of missile nose cones and missile fuel may be stored at the close depots.	ag tal
	In order to bring the regiment to readiness No. 3 these conditions it is necessary:	in
	-to notify the personnel of the alert;	
	-to move the missile battalions, the servicing and supporting subunits of the regiment and the RTB into assembly areas and to organize and carry out the marc of these subunits to the primary siting area;	LHE
	-to deploy the regiment and RTB subunits in combat formation and to prepare them for the receipt and che of missiles and nose cones, and also for the receipt missile fuel;	CEINE
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-to direct the transport and fueling subunits of the battalion to missile and nose cone unloading points and to the Directorate of the Fuel Supply Dumps of the Ministry of Defense (Upravleniye snabzheniya gonyuchia Ministerstva oborony - USG MO);

-to receive the missiles, nose cones and missile fuel from the depots and to deliver them to the siting area:

-to check the missiles and nose cones and to bring them to readiness No. 3.

The total time needed to bring the regiment to readiness No. 3 under these conditions will consist of the time necessary:

-for notification of and assembly for the alert (up to 1 hour);

-for the execution of a march of up to 100 km by the transport and fueling subunits of the battalion, for the loading of the first group (partiya) of missiles on ground carriers (gruntovaya telezhka) (up to 10 hours), the transport of nose cones and of missile fuel must be carried out simultaneously with the transport of missiles;

-ion the technical preparation of the missiles and nose cones after transport (up to 6 hours).

Simultaneously, the missile battalions march for 20-50 km to the siting area and deploy the ground equipment in the siting area (up to 5 hours).

Up to 17 hours is required to bring a regiment to readiness No. 3 under these circumstances; missile battalions will be ready to receive missiles 6 hours after an alert is announced.

In order to ensure readiness No. 4, the subunits of DX1-HUM

2	regiment	may	also	be	located	in	the	primary	siting	50
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or at the permanent disposition area when the regimental stocks of missiles and nose cones are set up directly in the siting area and the missile fuel components are stored at the closest USG MO dumps (at a distance of up to 100 km). Under these conditions, the time necessary to bring the regiment to readiness No. 3 will be determined by the time necessary for the transport and fueling subunits of the battalion to march to the USG MO dumps, to receive the missile fuel components and to transport them to the siting area. Depending on the distance to the USG MO dump, on the condition of the roads, the weather, and sometimes on other conditions, the time will total 10 to 15 hours and sometimes more.

The deployment of a regiment in combat formation and the transition to readiness No. 3 may be carried out under conditions in which personnel are located simultaneously in the primary siting area and at the area of permanent disposition. In consequence, the initial conditions which may precede the bringing of the regiment to readiness No. 3 may be very varied. Therefore, the time necessary to reach readiness No. 3 depends on the particular situation and may vary between 6 and 20 hours.

The principles mentioned above are essentially confirmed by the results of the exercises which have been carried out. In general, the initial situation of subunits, before the start of the exercise, conformed to the version which was originally stated.

The regimental headquarters took 10 minutes to transmit the "Alert" signal to the subunits, the battalion headquarters - about 1 minute. However, this signal was transmitted to the technical position only after 34 minutes because of the lack of direct communications between this position and the command post of the battalion.

The assembly of subunit personnel at their places of work was accomplished in 8 to 20 minutes.

-12-

The deployment of ground equipment by the launching batteries was not carried out in uniform periods of time (from 1 hour 33 minutes to 2 hours and 19 minutes); this is explained by the different levels of preparedness of the subunit personnel and mainly by the different conditions for the deployment of the launch batteries.

One of the reasons for the differences in preparedness between the subunits was that the evaluation of their work is made not for each operation on the technological schedule, but as a whole, using the total time needed to bring a battery to a particular readiness, which is, of course, wrong. As the basis for an evaluation of all work in bringing a subunit to a certain degree of readiness, it is essential to evaluate not only the total time needed but also that taken for each technological operation.

The whole of the preparatory work was completed by the launch batteries in 21 to 3 hours and the calculations for the independent checking of the technical battery were completed in 51 hours. The total time for bringing the missile regiment to readiness No. 3 was more than that allowed (15 hours), because during this stage the RTB was working below its potential level, having spent 13 hours in preparing 4 nose cones (instead of 9 to 10 hours). The notification to and assembly of the subunits of the regiment and RTB for the alert was intolerably slow. The organization of the assembly of personnel in an alert must be thoroughly perfected, using not more than 30 seconds for the notification of the subunits of the regiment located in the primary siting area and 5 to 7 minutes for this assembly. The notification should be carried out by technical means, using selective loudspeaker communications, sound and light signal devices (electric bells, signal lights, etc.), the installation of which must be carried out in all places where the personnel are disposed. The technical means of notification should be activated instantly by the pushing of a button. A similar system of signals must be set up by the forces and means of units and subunits.

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-13-

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Exercises have shown that a missile regiment needs 12 to 13 hours for transition to readiness No. 3 from the previously mentioned initial position. However, the time necessary to convert the missile regiment to readiness necessary to convert the missile regiment to readiness No. 3 can be almost halved if the productivity of the RTB's assembly brigades bringing nose cones to SG-5 corresponds to the productivity of the missile battalions of the regiment to the productivity of the missile battalions of the regiment in the technical preparation of missiles for launching.

Preparation of Data for Missile Launchings

When a regiment is on combat duty, initial data for the launching of missiles are prepared beforehand for all targets scheduled for destruction by the regiment, and the documents required by the launching regulations are formulated. The preparation beforehand of data for launchings against each target includes:

-calculation of the spherical azimuth and of the range of the launchings;

-filling out data preparation form No. 1;

-the compilation of the launching card, of aiming cards and of the initial geodetic data.

The preparation of initial data for the launching of missiles at the start of combat operations consists of carrying out calculations for the second phase, which are performed directly before the fueling of the missile. In this process, the following are determined:

-the feasibility of firing on the planned targets, given the specific gravities of the oxidizer and fuel;

-the time setting for the accelerometer (vremya zaryadki integratora) in accordance with the main and preliminary commands for engine shutdown;

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fuel loadings of	the	missiles b	y weight	and	AOTIMe.

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-14-

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In the exercise, the preparation of data for the second phase was carried out by the data-preparation section (otdeleniye podgotovki dannykh - OPD) of the battalion, augmented by data-personnel (vychislitel) from a battalion which was not taking part in the exercise. It is necessary to strengthen the OPD of the battalion with reserve data-personnel from among the socior geodesists of the geodetic support platoon, whose training must be organized and carried out beforehand under the direction of the chief of the OPD of the regiment. In their degree of training, the senior geodesists approximate very closely to the data-personnel of the data preparation sections and are capable of mastering this specialty (which is related to their own) in a short period of time.

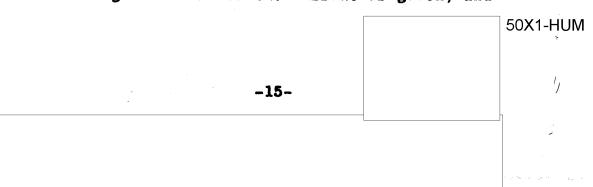
Since the geodetic preparation of the siting areas of a regiment is carried out in advance, and since the senior geodesists of the geodetic support platoon are free of work in their specialty by the time combat operations begin, it is possible to use them as data-personnel. In this process it is advisable to set up a non-organic OFD for the regiment with the 6 to 8 reserve data personnel and to entrust them with the performance of the following main tasks:

checking the accuracy of the calculations made by the OPD of the battalions;

-making first phase calculations in the preparation of data for launchings against targets that were not on the plan, in cases when the battalion OPDs are busy with the preparation of second phase data for launchings against planned targets;

-reinforcing the battalion OPD (when necessary).

Exercises have shown that in preparing subunits for the launching of missiles directly from readiness No. 2, the battalion OPD carrying out the computation of second phase data in accordance with the instructions of the Temporary Firing Tables (Vremennaya Tablitsa Strelby), delays the launching of the missiles for 12 to 17 minutes, because the loading with fuel components begins seven to nine minutes after the signal to launch the missile is given, and



calculation of the volume of the fuel components takes 20 to 25 minutes. This fault can be eliminated by advance completion of Form No. 2 on the series of possible temperature values (znacheniye temperatur) of the fuel and the oxidizer. The availability at the battalion of a table, calculated in advance, showing the possible temperature values of the missile fuel components has been shown by the experience of exercises to permit a reduction in the time needed to calculate their volume by 12 to 17 minutes, and to allow the advance issue of data for the loading of missiles with fuel and oxidizer.

In addition, the exercises disclosed:

-the advisability of advance calculation, by the data preparation sections of the battalions, of the angle for the preliminary aiming of the missile (the angle between the basic direction and the line connecting the center of the pad of the launching mount with the point where the guidance theodolite (teodolit navodki) is standing, which ensures the timely computation of the first phase of the initial data for the launchings;

the possibility, in principle, of increasing the launch sector of a launch site by 490 (190 to the left of the basic direction and 300 to the right) without relocating the ground equipment assemblies, but changing the point where the guidance theodolite stands. However, the launch sector for each launch site depends on the particular features of its equipment and may have widely differing dimensions. The possibility of increasing these dimensions must therefore be determined for each launch site individually;

-the need to strengthen the data-preparation section of the regiment with non-organic, reserve data-personnel, because its organic composition does not permit the organization of control over the work of the OPDs of the battalions;

-the need to supply each member of the working datapersonnel with a separate copy of the launching tables;

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-the need to establish time norms for the transmission of initial data for launchings to all the subunits, from the battalion data-preparation section to the launch batteries;

-the possibility that calculation by the battalion data-preparation section of the initial data for all launching mounts for launchings against an unscheduled (neplanovoy) target will take 3 hours and 30 minutes, which greatly exceeds the time taken for the technical which greatly exceeds the time taken for the technical preparation of missiles for launching from readiness Nos. 3, preparation of missiles for launching from readiness Nos. 2 and 1. To eliminate this fault it is necessary to use accelerated methods for the calculation of initial data, accelerated methods for the calculation of initial data, for example, the method developed by the Artillery Academy i/n F.E. Dzerzhinskiy.

It is also necessary to develop widespread rationalizing and inventive work in units, in scientific-research institutes and in the military higher education institutions, institutes and in the military higher education institutions, designed to evolve more accurate and more rapid methods for the calculation of initial data. Use should be made of all opportunities for a more rational distribution of all opportunities for a more rational distribution of functional duties in the OPD, for the use of available calculating equipment, for the improvement of existing methods culating equipment, for the development of new ones, and of computing data and for the development of new ones, and also for the wider introduction of electronic computers.

The Transition of a Regiment to Readiness Nos. 2 or 1 and the Preparation of Missiles for Launching in the Primary Siting Frea

After transition to readiness No. 3, the missile regiment may remain at this state of readiness for some time, or, upon a signal from the central command post, it may pass to a higher degree of readiness, or may prepare missiles directly for launching.

On reception of the signal to pass from readiness No. 3 to readiness No. 2, the missiles and nose cones are transported to the launching platforms from prelaunch storage (predstartovoye khranilishche), are mounted on the launch

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-17-

pads, and are brought to readiness No. 2. Missiles and nose cones, which were checked at the technical position, are handed over to prelaunch storage, are mated (sostykovyvat) and are brought to readiness No. 3. The necessary fueling capacity (zapravochnaya emkost), filled with missile fuel components, is delivered to the launching platforms and readied for the fueling of the missiles. Missiles are aimed at first volley targets, the accelerometers are set for the flight time. Duty combat crews must be located at their places of work at this time.

The launching of missiles from readiness Nc. 2 must be carried out not more than an hour after the regimental commander receives the command to launch.

From readiness No. 2 the subunits of the regiment may prepare the missiles directly for launching or bring them to readiness No. 1.

On receipt of the signal for transition from readiness No. 2 to readiness No. 1 the following steps are carried out:

-the fueling of missiles with fuel and oxidizer;

-a check of the aiming of the first volley at the target;

-the transport of missile fuel components by the regiment's surface transport resources, which are free after fueling the missiles.

Duty combat crews must be permanently located at their places of work.

The launching of missiles from readiness No. 1 must be accomplished not more than 30 minutes after the moment when the regimental commander receives the signal to launch.

The actions of regimental subunits in the exercise, after deploying at readiness No. 3, consisted of subsequent

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#### TABLE 1

Description of Technical Operations	Average Time for Completion of Operation
Transition of the regiment to readiness No. 3, from the moment the alert was given. (according to the report of the last battery)	15 hours Ol minute
Conversion of missiles from readiness No. 3 to readiness No. 2.	2 hours 50 minutes
Conversion of missiles from readiness No. 2 to readiness No. 1.	48 minutes
Preparation of missiles for launching from readiness No. 1.	30 minutes
Conversion of missiles from readiness No. 4 to readiness No. 3.	2 hours 20 minutes
Preparation of missiles for launching from readiness No. 3.	3 hours 14 minutes
Conversion of missiles from readiness No. 4 to readiness No. 2.	3 hours 10 minutes
Preparation of missiles for launching from readiness No. 2.	50 minutes
Conversion of missiles from readiness No. 4 to readiness No. 1.	3 hours 40 minutes
Preparation of missiles at the technical position.	4 hours 38 minutes

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The operations of subunits at a given stage of the exercise, in fulfilling the tasks allocated by the Main Staff of the Missile Troops, showed that the times taken for checking at the technical position - for the preparation of missiles for launching, and for transition from one stage of readiness to another, were basically shorter than the times established as normal (the transition from readiness No. 3 to readiness No. 2 by 1 hour and 20 minutes, the transition from readiness No. 2 to readiness No. 1 by 22 minutes, etc.). The time taken to perform certain technological operations at launching and technical positions was reduced to a minimum, thanks to the combination of separate operations.

The experience of exercises has shown that the existing time norms for the carrying out of a series of technological operations are in need of review. It is advisable, for example, to carry out the self-contained (avtonomny) tests of the system for regulating apparent speed (kazhushchayasya skorost) in conjunction with the checking of the system for normal and lateral stabilization, which reduces the length of time taken to prepare a missile for launching by 10 to 15 minutes; to allot 15 minutes instead of 5 for the uncovering of the missile; 15 minutes instead of 20 for testing insulation resistance and the integrity of the circuits, 20 minutes instead of 30 for the assembly of the independent testing circuit, 30 minutes instead of 25 for final operations on the engine assembly.

In addition, it is advisable to include in the technical schedule as a separate, independent operation the adjustment of the gyroscope-stabilized platform (giroplata), allotting 5 minutes for its fulfilment. The adjustment of the gyroscope-stabilized platform must be carried out after the instruments have been installed on board the missile. It is also advisable to install storm lashing (shtormovoye krepleniye) on the missile before its erection.

### The Movement of a Regiment to an Alternate Siting Area

The advance preparation of the primary siting area of a regiment creates favorable conditions for the complete engineer preparation of elements of the combat formation,

-21-

	which significantly raises their viability. In addition, the prolonged presence of a regiment in one siting area greatly increases the probability of discovery of its
	elements of combat formation by reconnaissance, which makes it possible for the enemy to deliver nuclear/missile strikes
	at the beginning of combat operations.
	The problem of increasing the viability of the combat formations of missile troops must therefore be resolved
	by skilfully combining the concealment of preparations for combat operations with the engineer preparation and
	the concealment of combat formations, with broad maneuvers, with the deception of the enemy by the creation of simulated
	siting areas, with the carrying out of false regroupings, transfers, etc. When the actual threat of an enemy nuclear
	attack arises it is essential to take measures to move the regiment from the primary siting area and to relocate it in
	an alternate siting area or in another area which provides an opportunity for the further performance of combat tasks.
	The need to change the primary siting area and to relocate the regiment in an alternate siting area may also arise:
	-in the event that it is impossible to fulfil combat tasks, for example, because of enemy fire;
	-on the reception of new and unscheduled fire missions, which cannot be fulfiled from a particular siting area;
	-when it is impossible for personnel to remain in a particular area for a prolonged period because of high radioactive contamination;
~	-in the event that several launchings have been carried
	out from the primary launch sites, which increases the likelihood of their being located by intersection by the enemy, and in other cases.
	Thus, the need to transfer the regiment during combat operations, from the primary siting area to an alternate area (or to another) may arise quite often. This task
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can be performed successfully only with a high degree of march training, and also when there is a high factor of technical preparedness in the motor pool of the subunits, of the regiment and of the RTB. Therefore, march training must be kept in the center of attention by commanders and staffs and must occupy one of the important places in the system of unit and subunit combat training.

During the exercises a situation was created in which the regimental commander decided to change the siting area and to move the regiment to an alternate siting area.

The launch batteries took 2 hours and 18 minutes to pack up their equipment and to prepare for the march, the technical battery 35 minutes, and the assembly brigade of the RTB 1 hour and 16 minutes.

A march of about 15 km was carried out by the subunits of the regiment and the RTB slong one route, taking an hour and 20 minutes. Simultaneously, the battery fueling, transporting and fueling sections were directed to the field dump of the USG MO to collect missile fuel. The sections took 10 hours to collect the missile fuel components and to carry out a march totaling 99 km.

Upon arrival at the alternate siting area the subunits of the regiment and RTB began to set up the equipment. The launch batteries took 3 hours for this, the technical battery 1 hour and 32 minutes, and the RTB 2 hours and 20 minutes. For the march and for setting up in the alternate siting area a total of 5 hours and 23 minutes was used. The advance movement of some of the vehicles and personnel of the technical battery and of the RTB facilitated quick deployment by ensuring the erection of tents and the carrying out of some preparatory measures before the arrival of the subunits.

The launching of missiles directly from readiness No. 3
was carried out in 2 hours and 6 minutes and in 2 hours and
12 minutes.

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The experience of exercises has shown that the organization and carrying out of a march by a regiment equipped with medium range missiles involves considerable The great weight of the convoys (poyezd), difficulties. which runs into tens of tons, the large dimensions of the missiles, of the means for their transport and of the means for transporting fuel make exceptionally great demands on the roads. The success of a march will depend to a considerable degree on the availability of wide hard-surface roads, of bridges with high load-bearing capacity, on the configuration of the terrain, and on the training of personnel and other conditions.

The maneuverability of missile units may be increased by reducing the weight and dimensions of the missiles and of the means for their transport.

One possible way to resolve this problem would be to build solid fuel missiles. The solid fuel strategic missiles which are already in existence (uzhe sushchestvuyushchaya) have considerably lower launching weight and dimensions in comparison with missiles of the same class which have liquid rocket engines. However, on the march, solid fuel missiles are considerably heavier than liquid missiles which have not been fueled, and thus they have no perceptible advantages in maneuverability.

It is also possible to follow the path of setting up mobile launching platforms (start) on railroad cars or on the mobile means of the maritime (river) fleet. The advance preparation of several siting areas (areas for parking (mesto stoyanki) or deployment in combat formation) for such subunits, the systematic changing within short periods of siting areas separated by considerable distances, would ensure the concealment of their deployment and of their preparation for combat operations, and would create conditions increasing their viability.

However, mobile launching platforms also have a series

of serious faults, basic among which are: 50X1-HUM

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	-their confinement to railroads and simplifies their detection by enemy in	waterways, which telligence;
	-their location away from cover, wh their vulnerability;	ich increases
	-the sharp diminution of the possible maneuver during combat operations if the waterways should be destroyed to a constant.	
	-the insufficient accuracy of launch river (maritime) launching platforms.	nings from mobile
	The Control of Regimental Subunits Duri	ing an Exercise
	The control of the subunits of a reall the activity of commanders and state of the training, organization and conduce operations of the subunits, and envisage	egiment includes Its in the direction
	-the maintenance of a high level of among personnel and of the constant conthe subunits;	political morale bat readiness of
<b>*</b>	-the timely allocation of combat tas	
	-the firm and unbroken direction of activities of the subunits;	the combat
%	-the organization of unbroken coordi	nation;
	-comprehensive support for the comba subunits;	t operations of the
	-constant control over the execution instructions and commands and over the of armament and combat equipment.	of combat orders, technical condition
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The control must ensure the concealment of preparation for combat operations, the surp ise and the high effectiveness of nuclear/missile strikes the possibility of transferring nuclear/missile strikes from certain areas to others, and the simultaneous and high-grade performance of measures for the protection of subunits from enemy means of mass destruction.

The control must be unbroken, firm and flexible.

The control of regimental subunits is organized in advance with the aim of ensuring constant combat readiness and the speedy delivery of nuclear/missile strikes against the enemy. It consists of the formulation of basic combat documents, the allocation of specific tasks to subunits, the organization and preparation of command posts, of working areas for battery commanders and of communications centers and nets, the organization of radio nets and of directional and nets (radionapravleniye), the comprehensive support radio nets (radionapravleniye), the comprehensive readiness of subunits and their maintenance at the appropriate readiness for combat operations, and the unbroken direction of their combat operations.

Having received the combat order to move the regiment's subunits to the siting area and for the organization of combat duty, the regimental commander explains the task and makes a decision which shows:

-combat duty tasks and the degree of combat readiness;

-the number and composition of the subunits put on combat duty;

-the distribution of launch and technical sites, the procedure and time for their occupation;

-the arrangement and time for the reception of missiles, stores for building up to prescribed strength (komplektuyush-cheye imushchestvo), missile fuel components and other 50X1-HUM materiel supplies;

-the arrangement for the receipt of data for the aiming of the missiles and for the preparation of the missile guidance system;

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	-the arrangement for the organization of coordinate between the launching subunits and the RTB assemble brigades;	nation y
	-the supply station (unloading points), the loc of the USG MO depot, the routes and the procedure the transport of materiel means to the siting area	as;
	-the location of the regimental command post as arrangement for the organization of communication	ad the s;
	<pre>-the signals and the arrangement for reporting carrying out of signals (commands);</pre>	the
	-the readiness periods.	·
	In addition, in his decision, the regimental provides measures for combat, geodetic, meteorolo engineer and materiel and technical support.	<b>,,,,,,</b>
	The regimental commander passes his decision those who are to implement it in the form of a country and of combat instructions. On the basis of the commander's decision, the headquarters staff of together with the special armaments service (slust spetsialnogo vooruzheniya), with the deputy regime commanders of the rear services and of the technicarries out the planning of the comprehensive sugar combat operations of the subunits and works measures for carrying out the plans.	the regiment, who we will be a contained to the contained
	Having deployed the subunits in combat forma at the combat readiness specified, the commander staff of the regiment organize:	tion and and the
	-the concealment of all measures for the prep of subunits for combat operations;	
	-a check on the maintenance of the specified readiness and on the performance of duty by pers	combat connel; 50X1-HUM
	-all types of combat support;	
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		are a setting

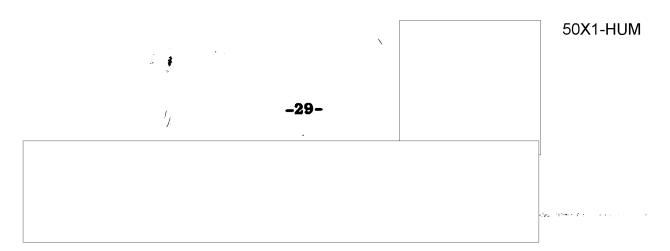
	50X1-HUM -support with materiel and everyday necessities (materialno-bytovoy);
	-study and training with the subunits, striving to achieve the minimum expenditure of time on their preparation for the execution of fire missions;
	-more precise definition (revision) of the planning documents, when necessary.
	On receipt of the signal to go from readiness No. 4 to readiness No. 3 (2 or 1) the regimental commander must immediately announce a combat alert, report on the signal he has received to the large unit commander and organism:
	-a check on the carrying cut of the signals (commands) and on the plan for the transition of the subunits to the specified combat readiness;
	-the preparation of personnel and of ground equipment for the execution of fire missions;
	-a check of the missiles and nose comes and on their delivery to the launch sites;
	-the transport of missiles, nose cones and missile size: to the siting area;
<u>`~</u> ~	-the strengthening of the security of the siting area and of the routes for the transport of material means;
	-the reliable control of subunits and of the unbroker operation of communications;
	-the timely preparation of missiles for launching (aiming at the target, fueling, etc.).
	With the beginning of combat operations the control will be effected by the transmission of short signals, specifying the previously determined sequence of work for the subunits on transition to the appropriate readines or to the direct preparation of missiles for launching.
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More precise definition or the partial revision of combat tasks must be carried out by short enciphered combat orders over technical means of communications, and when there is time - by the issue of oral combat orders and instructions.

The experience of exercises has shown that, in order to ensure the dependable control of regimental subunits at the beginning of combat operations and during their course, it is necessary to compile the following combat documents and to have them at the regimental headquarters (at the command post):

- 1. The plan of action for the subunits of the regiment in an alert, during deployment in combat formation (the contents of the plan have been mentioned earlier).
- 2. The plan of action for the subunits of the regiment when moving to an alternate siting area. The plan must be worked out on the basis of intelligence data and must provide signals for leaving the positions occupied and for beginning the move to the alternate siting area; the arrangement for packing up the cable network and the ground equipment and for the quitting of their positions by the subunits; a calculation of the march and the procedure by which it is to be carried out; the deployment of the subunits in the alternate siting area and their preparation to carry out combat tasks; the organization of combat, materiel and technical and medical support on the march and at the alternate siting area.
  - 3. The launching table (compiled during the special period (osobyy period)). The table shows: the number of the targets and the total expenditure of missiles for each target, the coordinates of the aiming points, the expenditure of missiles on the aiming point, the TNT equivalent and the type of burst, the missile launching time for each launch battery.



- 4. The work map of the commander (staff) of the regiment, on which the following are entered: the combat formation of the regiment in the primary and alternate siting areas; the combat formation of the PVO means covering the regiment; the routes for moving to the alternate siting area; the basic direction for the launch of missiles by the battalions; the boundaries of the area of possible destruction of targets; the unloading stations. In addition, the following are entered on the map: the forms of the tables for the control of signals and of missile launchings, the layout of the plan for the transport, preparation and issue of nose cones to subunits; the form of the plan for the issue of missiles, of materiel for building up to prescribe strength, and of fuel components. The forms of the tables and plans are filled out during the special period.
  - 5. The plan (schedule) for the preparation of missiles for launching, which is compiled on the basis of the task and of the technological schedule for bringing the missiles and of the technological schedule for bringing the missiles to the specified degree of readiness or directly for launching. The plan (schedule) must show: the beginning and end of the work of preparing missiles for launching on and end of the work of preparing missiles for launching on for transition to a higher stage of readiness; the order for performing the basic jobs which regulate the preparation of a missile; the availability of the missiles in each missile battalion, with an indication of their degree of readiness.
    - building up to prescribed strength and of missile fuer.
      The plan is compiled by the special armament service,
      The plan is compiled by the special armament service,
      Together with the staff of the regiment, during the special
      period. The plan provides: the points and the time of
      arrival of the transport bringing missiles, material for
      arrival of the transport strength, and missile fuel
      building up to prescribed strength, and missile fuel
      components, the time of issue and the amount of material
      issued to each battalion. When the regiment is supplied
      issued to each battalion operation in advance, this
      type of plan is not made up.

-30-

- 7. The plan for transport, preparation and issue of nose cones to battalions. The plan is worked out by the staff of the regiment together with the staff of the RTB, during the special period. The contents of the plan provide: the time when the transport means of the RTB are to be sent to the unloading point; denomination and quantity of the nose cones; the time to be taken for the loading of nose cones on the means of transport; the time at which the nose cones are to arrive at the RTB and the duration of their preparation; the time for dispatching the nose cones from the RTB and the time of their arrival at the appropriate launch sites.
- 8. A memorandum on the provision to subunits of special armaments, missiles, nose cones and fuel components. The memorandum shows the places where materiel supplies are stored. In peacetime the memorandum is kept in a sealed package.
- 9. Diagrams of the radio and wire communications. The diagrams are worked out in accordance with the channels of communications which the regiment has under command and with the numbers of forces and means which are in operation. The legend for each diagram shows an estimate of the forces and means in operation and in reserve.
- 10. Tables of callsigns and radio data. The tables are made up in accordance with the data received and with the instructions of the staff of the large unit.
- 11. A prearranged message code (peregovornaya tablitsa) and a signal table. The prearranged message code of the missile regiment is confirmed by the chief of staff of the large unit and the signal table by the regimental commander. The word content of the tables must ensure control of the subordinate subunits during pre-combat preparation and during the course of combat operations.
- 12. Instructions for the responsible duty officer and for the duty shift of the regimental command post. The instructions are worked out by the staff of the regiment in accordance with the actual conditions and are confirmed by the regimental commander. Mentioned in them are:

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	up by the staff significant chan and mechanized e	suggested list of combof the missile regiment ges with the introduct quipment into the system	t may undergo ion of automated
	formulation and enumerated, the necessary material plan, that the organized fashio area, that they of combat reading prepared in good	ience of exercises has presence in the regiment commander and staff are el supplies are accumulated regimental subunits will not and will deploy rapid will be brought to the ess and that missile latime and carried out.	assured that the assured that the ated according to a move in an appropriate level appropriate level aunchings will be
•	electrified disp	nd post of the missile lay board (table) shoul s of the directorate an f subordinate subunits	d be installed to
	security, on self on antiaircraft of mass destruction combat orders are	orders on the organizat -defense and combat wi defense, on protection and on camouflage. The defined in the Staff	against weapons of the Field Service Man
	and orders received are entered and regiven by the community log is kept personal regiment or by a	all orders received and ded over technical means recorded in the log, as mander and staff of the onally by the chief of staff officer nominate	s of communication well as orders regiment. The staff of the d by him.
	of the duty shift the personnel of the storage and u for action when a higher degree of performance of co	esponsible duty officer of the command post; the the duty shift; the arm se of combat documents; signal to bring the re readiness or to prepare mbat tasks is received	rangement for the procedure agiment to a tit for the
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The control of the regiment in one of the exercises was carried out from the central command post by the Commander-in-Chief of Missile Troops, by means of commands (signals) transmitted to the command post of the regiment through the communications center of the division command The signals were transmitted over permanent wire communications with the help of a secrecy device and were duplicated over high frequency communications. The control of the subunits of the regiment and RTB was carried out from the command post of the regiment, located in the primary siting area of one of the battalions. This location of the command post allowed the commander of the regiment to carry out the direction of the subunits not only by technical means of communication but also by personal contact with the commander of the missile battalion, of the transportation and fueling battalion, and with the chief of the RTB.

Ten minutes elapsed between the moment when the regiment received the signal, directing that the subsequent operations of the regiment were to be determined by documents prepared in advance, and the announcement of the alert to the batteries; of these 2 minutes were spent on the transmission of commands to the battery commanders, 8 minutes on the exchange of passwords and on study and explanation of the order. The order to go over to readiness No. 3 was sent to the battalion commander by the regimental commander by coded telegram (kodogramma) 18 minutes after the regiment received the alert signal. The explanation of their tasks to the commanders of the subunits located in the immediate proximity of the regimental command post was carried out by the regimental commander as they arrived at the command post (within 18 to 25 minutes).

The commander of a missile battalion put before the commanders of batteries orally the tasks of going over to readiness No. 3. The commanders of batteries arrived at the command post of the battalion to receive their tasks immediately after the alert had been declared. However, the summoning of subunit commanders from a combat duty position to the command post of the regiment (50X1-HUM)

to assign or explain their tasks at the beginning of combat operations cannot be considered as a rule. Under these conditions, all tasks must be conveyed to the subunits beforehand. Thus, the combat operations of subunits must begin with the receipt of short signals (commands) transmitted by technical means of communication.

The commands for transition to readiness No. 2, and then to readiness No. 1, and for the carrying out of missile launchings were transmitted in 2 to 5 minutes to those who were to carry them out. The regimental commander transmitted the commands over the telephone (by code or in open text) to each subunit in turn, while the commander of a battalion transmitted them (in open text) in a circular manner (tsirkulyarno), spending much less time over their transmission.

From the beginning of the exercise the regimental commander, instead of transmitting signals for transition to readiness Nos. 3, 2, and 1, sent coded telegrams to the missile battalions, which took up to 3 minutes to decode. Such a method of controlling regimental subunits must be regarded as mistaken. The control of regimental subunits during the period of the preparation of missiles for launching or during their transition from one readiness to another must be exercised by means of short, instantaneously transmittable signals, whose significance must have been memorized by appropriate persons.

During the course of combat operations the commanders of the regiment and of the missile battalion controlled the subunits only from their command posts by telephone. However, it is impossible to exclude the possibility, and sometimes, the need, for personal control over the operations of the subunits by the commander of the regiment (battalion) at any stage of combat operations.

During the periods of preparation for a march and of moving the subunits to the initial line (iskhodnyy rubezh), control was exercised by telephone from the command post of the regiment and by personal contact between the regimental commander, the commander of the missile battalion and the chief of the RTB, and during the march — through

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-34-

personal contact and with the help of the traffic control service (sluzhba regulirovaniya). Wire communications in the alternate siting area were set up in advance and worked dependably and without interruption.

The experience of the exercises showed that the question of controlling regimental subunits on a march is poorly worked out. The problem consists of finding and of working out practically the most expedient methods for the control of subunits on the march. First of all it is necessary to devise a method for the control of a marching column with signals, for which it would be advisable to instal three-color signal lights on the prime movers, motor vehicles and ground carriers (using the forces and means of the units). Control signals using these signal lights must be transmitted from the driver's cab. During a march over greater distances, with the regiment and RTB at full strength, radio communications will also be organized to exercise dependable control over the column. In order to ensure secrecy, receipt and transmission of signals by the radio sets of the regimental commander and of the chiefs of the columns must be permitted. The remaining radio sets of subunits may only receive signals.

It is also necessary to bear in mind that radio will represent the basic means of communication during combat operations. Maintenance of radio equipment in constant readiness for work, a high level of training of radio operators, the improvement of their level of performance (klassnost), systematic radio training exercises, and the perfection of radio networks and of directional radio must therefore be the constant concern of the commanders and staffs of units and subunits.

The dependability and stability of control depends to a considerable degree on the level of training of personnel and on the equipment of command posts and of the working areas of commanders and staffs. In certain units the working areas of battery commanders at the launching platforms are; equipped in a primitive fashion, cluttered up with telephones, loudspeaker apparatus and other equipment

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-35-

and do not provide normal conditions for work, or reliable protection for combat documents from the effects of atmospheric precipitation.

In view of the low level of training and the unsystematic conditioning of personnel, and also as a result of the lack of adaptability of the means of control to work in gas masks, the control of regimental subunits in conditions when the siting area was contaminated by radioactivity was carried out with great difficulty and was often disrupted.

In order to ensure stable control under different conditions, the attention of unit (subunit) rationalizers must be concentrated on the perfection of technical means of control, especially when personnel are operating in of control, especially when personnel are operating in for battery commanders, providing convenient accommodation for battery commanders, providing convenient accommodation and the interconnection (kommutatsiya) of means of communication, concealment for work with combat documents communication, concealment for work with combat precipitation.

The experience of exercises has shown that many questions of control are in need of further perfection with the aim of increasing its dependability and stability and of ensuring the delivery of the first nuclear/missile strikes against the enemy in the shortest possible time. For this it is first of all essential to make the maximum reductions in the time taken in the transmission and, particularly, in the encoding of commands to those who are to carry them out and of reports about progress in the fulfilment of tasks by the subunits. The signal table used in this exercise, drawn up by the staff of the regiment, turned out to be cumbersome, resembled a prearranged message code (peregovornaya tablitsa) and was inconvenient to use. As a result, the coding and especially, the decoding of even short commands and instructions took up a lot of time. Also, the time taken to issue instructions and to allocate tasks which are to be carried out by several different executants, must be reduced by means of circular transmissions over the technical means of communication which ensure the fastest transmission at a given moment. All this will allow a certain reduction in the time taken for the transmission of tasks.

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